ALCON CTL TESTING PRIVATE LIMITED
CIN U74900KA2010PTC053574

Ref: ACTPL/RDM 170106/2016

Date: 22/09/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 170106
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 21/9/2016
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
Drains	170106/1	21/9/2016	22/10/2016	28 Days	(150X150X148)	22500	512	22.76	21.87
Drains	170106/2	21/9/2016	22/10/2016	28 Days	(150X150X149)	22500	499	22.18	
Drains	170106/3	21/9/2016	22/10/2016	28 Days	(150X150X149)	22500	465	20.67	

☑ *Satisfactory*
☐ *Non Satisfactory*

** As Furnished by the Customer*

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, B.E, M.tech,
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, # 35, 4th Main, 4th Stage, Next to Trinity Motors, Indl. Town, Basaveshwar Nagar, Bangalore - 560 079 Karnataka, India.
Phone : 91-80-23504236 Email : mail@alconctl.com
www.alconctl.com

ALCON CTL TESTING PRIVATE LIMITED
CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 170106/2016

Date: 26/11/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 170106
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 25/10/2016
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
Drains	170106/4	26/10/2016	25/11/2016	28 Days	(150X150X148)	22500	523	23.24	23.53
Drains	170106/5	26/10/2016	25/11/2016	28 Days	(150X150X149)	22500	521	23.16	
Drains	170106/6	26/10/2016	25/11/2016	28 Days	(150X150X149)	22500	544	24.18	

☑ *Satisfactory*
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For **ALCON CTL TESTING PVT. LTD.**

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Quality Manager

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A.E

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www.alconctl.com

ALCON CTL TESTING PRIVATE LIMITED
CIN U74900KA2010PTC053574

Ref: ACTPL/RDM 170106/2016

Date: 24/10/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 170106
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 24/9/2016
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
Drains	170106/7	25/9/2016	24/10/2016	28 Days	(150X150X148)	22500	510	22.67	21.72
Drains	170106/8	25/9/2016	24/10/2016	28 Days	(150X150X149)	22500	487	21.64	
Drains	170106/9	25/9/2016	24/10/2016	28 Days	(150X150X149)	22500	469	20.84	

☑ *Satisfactory*
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Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED
CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 170106/2016

Date: 30/10/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 170106
Grade of Concrete : M-30 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 26/9/2016
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
Road	170106/1	28/9/2016	30/10/2016	28 Days	(150X150X148)	22500	680	30.22	30.81
Road	170106/2	28/9/2016	30/10/2016	28 Days	(150X150X149)	22500	699	31.07	
Road	170106/3	28/9/2016	30/10/2016	28 Days	(150X150X149)	22500	701	31.16	

☑ *Satisfactory*
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ALCON CTL TESTING PRIVATE LIMITED
CIN U74900KA2010PTC053574

Ref: ACTPL/RDM 170106/2016

Date: 01/11/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 170106
Grade of Concrete : M-30 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 26/9/2016
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
Road	170106/4	30/9/2016	1/11/2016	28 Days	(150X150X148)	22500	755	33.56	32.06
Road	170106/5	30/9/2016	1/11/2016	28 Days	(150X150X149)	22500	712	31.64	
Road	170106/6	30/9/2016	1/11/2016	28 Days	(150X150X149)	22500	697	30.98	

☑ *Satisfactory*
☐ *Non Satisfactory*

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ALCON CTL TESTING PRIVATE LIMITED

CIN. : U74900KA2010PTC053574

Ref: ACTPL/RDM 170106/2016

Date: 25/12/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM – 170106
Grade of Concrete : M-30 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 24/11/2016
Samples Supplied to Lab by : **Sri. A. Chennareddy, Bengaluru.**

Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
Road	170106/7	24/11/2016	25/12/2016	28 Days	(150X150X148)	22500	713	31.69	31.24
Road	170106/8	24/11/2016	25/12/2016	28 Days	(150X150X149)	22500	703	31.24	
Road	170106/9	24/11/2016	25/12/2016	28 Days	(150X150X149)	22500	693	30.80	

☑ *Satisfactory*
☐ *Non Satisfactory*

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, B.E, M.tech,
Quality Manager

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www.alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 28/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for WMM.
Sample Location : Ward No.2
Total Weight of Sample : 12500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
45	400	400	3.15	96.85	95-100
22.4	4102	4502	35.51	64.49	60-80
11.2	2312	6814	53.74	46.26	40-60
4.75	1988	8802	69.42	30.58	25-40
2.36	1241	10043	79.21	20.79	15-30
0.6	1232	11275	88.93	11.07	8-22
0.075	809	12084	95.31	4.69	0-8

☑ *Satisfy the Limits*
Does not satisfy the limits
**** As Furnished by the Customer***

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For **ALCON CTL TESTING PVT. LTD.**

Ashvini K, BE, M.Tech
Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 02/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Gradation for WMM.
Sample Location : Ward No.2
Total Weight of Sample : 12500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
45	587	587	4.74	95.26	95-100
22.4	4102	4689	37.90	62.10	60-80
11.2	2456	7145	57.76	42.24	40-60
4.75	1745	8890	71.86	28.14	25-40
2.36	1241	10131	81.89	18.11	15-30
0.6	1140	11271	91.11	8.89	8-22
0.075	1100	12371	100.00	0.00	0-8

Satisfy the Limits ☑
Does not satisfy the limits
** As Furnished by the Customer*

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Quality Manager

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 25/09/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for GSB
Sample Location : At Site (Ward No.1)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2232	2198	2241
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6973	6989	6832
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5393	5385	5345
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1244	1261	1253
6	Volume of sand in the hole, V=wb / Ys , cm3	921.48	934.07	928.15
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.42	2.35	2.41
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	64.53	64.12	63.65
10	Dry Weight =	59.98	60.02	59.22
11	Moisture Content =	5.06	5.01	5.24
12	Field Dry Density (g/cc)	2.30	2.24	2.29

Satisfy the Limits ☑
Does not satisfy the limits

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Quality Manager

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016

Date: 26/09/2016

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru.
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for GSB
Sample Location : At Site (Ward No.1)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2419	2384	2278
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6960	6950	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5342	5350	5347
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1281	1269	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	948.89	940.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.55	2.54	2.45
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	62.89	63.78	63.58
10	Dry Weight =	57.81	59.23	59.41
11	Moisture Content =	5.45	5.03	5.76
12	Field Dry Density (g/cc)	2.41	2.41	2.31

Satisfy the Limits ☑
Does not satisfy the limits

** As Furnished by the Customer*

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For ALCON CTL TESTING PVT. LTD.

Ashwini K, BE, M.Tech
Quality Manager

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Date: 27/09/2016

Ref: ACTPL/RDM 161206-3/2016

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bengaluru.
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.

Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for GSB
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2359	2405	2395
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6853	6951	6893
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5396	5672	5493
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1272	1283	1269
6	Volume of sand in the hole, V=wb / Ys , cm3	942.22	950.37	940.00
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.50	2.53	2.55
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	65.82	65.21	63.79
10	Dry Weight =	61.59	61.02	58.85
11	Moisture Content =	6.81	6.25	6.26
12	Field Dry Density (g/cc)	2.33	2.37	2.39

☑ *Satisfy the Limits*
Does not satisfy the limits

** As Furnished by the Customer*

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Quality Manager

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Date: 29/09/2016

Ref: ACTPL/RDM 161206-3/2016

TEST REPORT

Name of Client : Srl. A. Chennareddy, Bengaluru.
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for GSB
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2354	2458	2419
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6825	6783	6750
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5392	5465	5436
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1254	1297	1253
6	Volume of sand in the hole, V=wb / Ys , cm3	928.89	960.74	928.15
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.53	2.56	2.61
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.83	62.86	63.25
10	Dry Weight =	58.96	58.23	59.65
11	Moisture Content =	5.71	6.95	5.32
12	Field Dry Density (g/cc)	2.39	2.38	2.47

☑ *Satisfy the Limits*
Does not satisfy the limits

** As Furnished by the Customer*

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Quality Manager

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Date: 11/09/2016

Ref: ACTPL/RDM 161206-3/2016

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for GSB
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2418	2387	2359
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6873	6990	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5395	5345	5395
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1289	1257	1272
6	Volume of sand in the hole, V=wb / Ys , cm3	954.81	931.11	942.22
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.53	2.56	2.50
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.26	63.72
10	Dry Weight =	58.82	60.28	59.82
11	Moisture Content =	5.21	5.05	5.11
12	Field Dry Density (g/cc)	2.40	2.43	2.38

Satisfy the Limits ☑
Does not satisfy the limits

As Furnished by the Customer

Note:

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For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, BE, M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India
Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 22/10/2016**

TEST REPORT

Name of Client : **Srl. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2159	2315	2175
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6799	6524	6878
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5356	5234	5385
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1226	1309	1250
6	Volume of sand in the hole, V=wb / Ys , cm3	908.15	969.63	925.93
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.38	2.39	2.35
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.54	64.26	63.72
10	Dry Weight =	58.02	60.28	59.82
11	Moisture Content =	5.21	5.05	5.04
12	Field Dry Density (g/cc)	2.25	2.27	2.23

Satisfy the Limits ☑
Does not satisfy the limits

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Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 28/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2219	2325	2198
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6723	6358	6854
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5311	5328	5305
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1278	1321	1249
6	Volume of sand in the hole, V=wb / Ys , cm3	946.67	978.52	925.19
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.34	2.38	2.38
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.87	62.98	63.59
10	Dry Weight =	59.01	58.35	59.21
11	Moisture Content =	5.34	5.03	5.23
12	Field Dry Density (g/cc)	2.22	2.26	2.25

Satisfy the Limits ☑
Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 02/11/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2215	2193	2175
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6960	6950	6926
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5342	5350	5347
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1260	1249	1254
6	Volume of sand in the hole, V=wb / Ys , cm3	933.33	925.19	928.89
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.37	2.37	2.34
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	62.89	63.78	63.58
10	Dry Weight =	57.81	59.23	59.41
11	Moisture Content =	5.45	5.03	5.76
12	Field Dry Density (g/cc)	2.24	2.25	2.21

Satisfy the Limits ☑
Does not satisfy the limits

**** As Furnished by the Customer***

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 15/09/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.2)

Observations and calculations		Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2230	2183	2286
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6852	6921	6940
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5796	5823	5821
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1275	1261	1278
6	Volume of sand in the hole, V=wb / Ys , cm3	944.44	934.07	946.67
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.36	2.34	2.41
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.87	62.36	62.35
10	Dry Weight =	59.63	57.39	57.5
11	Moisture Content =	6.89	5.98	6.85
12	Field Dry Density (g/cc)	2.20	2.20	2.25

☑ *Satisfy the Limits*
Does not satisfy the limits
** As Furnished by the Customer*

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ALCON CTL TESTING PRIVATE LIMITED

Ref: ACTPL/RDM 161206-3/2016 **Date: 22/10/2016**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bengaluru.**
Project* : Comprehensive Development of roads and drains in ward No. 01 and 02 in Yelahanka Sub Division.
Customer's reference : RDM 161206-3
Description of Test : Sand Replacement for WMM
Sample Location : At Site (Ward No.2)

	Observations and calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2186	2156	2176
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6987	6854	6875
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5432	5234	5396
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1249	1242	1255
6	Volume of sand in the hole, V=wb / Ys , cm3	925.19	920.00	929.63
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.36	2.34	2.34
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.59	64.26	63.72
10	Dry Weight =	58.82	60.28	59.82
11	Moisture Content =	5.21	5.05	5.11
12	Field Dry Density (g/cc)	2.24	2.23	2.22

Satisfy the Limits ☑
Does not satisfy the limits
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